I CLAIM:

1. A pulsating hydrotherapy jet, comprising:

a jet body;

a water inlet to said body;

a water passageway within said body for forming water flowing through said inlet into a water stream; and

a discharge member in said jet body adapted to discharge said water stream as a plurality of subsidiary jets with respective concentric patterns.

2. The hydrotherapy jet of claim 1, further comprising:

a cap mounted on said body to receive said subsidiary jets, said cap having respective pluralities of openings aligned with respective ones of said subsidiary jet patterns to pulse said subsidiary jets when said discharge member is rotated.

3. The hydrotherapy jet of claim 2, wherein said discharge member is rotatably mounted in said body to rotate about an axis in response to a received water stream and discharge said water stream in said plurality of concentric patterns.

4. The hydrotherapy jet of claim 3, wherein said discharge member includes a plurality of conduits that divide the water stream and are oriented so that water flowing through the discharge member imparts a turning moment to said member that causes it to rotate and form said concentric patterns.

5. The hydrotherapy jet of claim 4, wherein said conduits present the appearance of asymmetric bunny ears.

6. The hydrotherapy jet of claim 4, wherein said openings are tapered in the direction of water flow.

7. The hydrotherapy jet of claim 6, wherein said openings intersect to form tapered ridges which divide said water stream between said openings without substantial back flow into said jet body.

8. The hydrotherapy jet of claim 6, wherein respective pluralities of said openings are substantially aligned with each of respective said conduits.

9. The hydrotherapy jet of claim 6, wherein said cap further includes a central opening whose axis is coaxial with that of said cap.

10. The hydrotherapy jet of claim 6, wherein said discharge member conduits have outlets at different distances from said discharge member axis.

11. The hydrotherapy jet of claim 10, wherein one of said conduits is coaxial with said discharge member.

12. The hydrotherapy jet of claim 10, wherein at least one of said conduits is at an offset with an axis that is non-parallel to said discharge member's axis of rotation, said conduit axis being displaced at least 25 degrees in a direction coplanar with said discharge member axis and further displaced at least 6 degrees in a direction normal to said plane.

13. A spa system, comprising:

a spa shell that is capable of holding water;

at least one pulsating hydrotherapy jet mounted

around said spa shell;

a water pump system that provides water to said jets;

each of said pulsating hydrotherapy jets, comprising:

a jet body;

a water inlet to said body;

a water passageway within said body for forming water flowing through said inlet into a water stream; and

a discharge member in said jet body adapted to discharge said water stream in a plurality of subsidiary jets with respective concentric patterns.

14. The spa system of claim 13, each of said jets further comprising a cap mounted on said body to receive said subsidiary jets, said cap having respective pluralities of openings aligned with respective ones of said subsidiary jet patterns to pulse said subsidiary jets when said discharge member rotates.

15. The spa system of claim 13, wherein said discharge member is rotatably mounted in said body to rotate about an axis in response to a received water stream and discharge said water stream in said plurality of concentric patterns, and said discharge member includes a plurality of conduits that divide the water stream and are oriented so that water flowing through the discharge member imparts a turning moment to said member that causes it to rotate and form said concentric patterns.

16. The spa system of 15, wherein at least one of said conduits is at an offset with an axis that is non-parallel to said discharge member's axis of rotation, said conduit axis being displaced at least 25 degrees in a direction coplanar with said discharge member axis and

further displaced at least 6 degrees in a direction normal to said plane.

17. A pulsating hydrotherapy jet, comprising:

a cap formed with multiple spaced openings that are positioned at a plurality of distances from the center of said cap; and

a discharge member rotatably mounted about a rotation axis upstream of the cap, said member having a plurality of conduits that are oriented at an angle to said rotation axis;

said member dividing water flowing through said jet into a plurality of water streams that flow through said conduits and cause said member to rotate and discharge said water streams in a plurality of concentric flows, through said spaced openings, thereby producing a plurality of pulsating jets.

18. The hydrotherapy jet of claim 17, wherein at least one of said conduits is at an offset with an axis that is non-parallel to said discharge member's axis of rotation, said conduit axis being displaced at least 25 degrees in a direction coplanar with said discharge member axis and further displaced at least 6 degrees in a direction normal to said plane.

19. A method of providing a hydrotherapy jet discharge, comprising:

discharging a plurality of water streams, and

rotating said water streams in concentric patterns around a common axis.

20. The method of claim 19 further comprising periodically interrupting said water streams to produce a

pulsed jet discharge.

21. The method of claim 19 further comprising discharging said plurality of water streams in concentric patterns having different radii around said axis.